

Table 2a: “Before” Travel Time Studies-North 27th Street (“O” Street to I-80)

“BEFORE”	AM Peak 7:00 AM – 8:30 AM		Midday 11:00 AM – 1:00 PM		PM Peak 4:00 PM – 6:00 PM		Off-Peak 10:30 PM – 12:00 AM	
Date of Study								
Day 1:	Fri., 2/4/00		Fri., 2/4/00		Thur., 2/10/00		Thur., 2/10/00	
Day 2:	Thur., 2/10/00		Thur., 2/10/00		Fri., 2/11/00		Tue., 2/15/00	
Day 3:	Tue., 2/15/00		-		-		-	
Travel Time Statistic	NB ²	SB ²	NB ²	SB ²	NB¹	SB	NB ²	SB ²
Average Travel Time (sec)	580.0	599.9	582.7	609.0	698.6	774.9	592.9	590.8
Standard Deviation (sec)	66.9	63.9	42.0	58.5	49.4	82.8	55.3	57.2
Average Number of Stops	2.4	3.6	2.8	4.8	5.3	6.1	3.2	3.2
Average Speed (mph)	31.9	31.2	32.0	30.7	26.8	24.2	31.2	31.6
Standard Deviation (mph)	3.9	3.2	2.3	3.0	2.0	2.6	3.2	3.3
95% Confidence Interval (mph)	2.8	2.5	1.8	2.5	1.7	2.7	2.7	2.5
Average Speeds Within This Range (mph) ³								
Lower Limit:	29.1	28.7	30.2	28.2	25.1	21.5	28.5	29.1
Upper Limit:	34.7	33.7	33.8	33.2	28.5	26.9	33.9	34.1
Time Duration Below:								
0 mph	88.0	70.1	52.0	72.1	140.6	195.2	80.7	77.0
7 mph	99.1	91.7	69.5	97.1	176.2	242.4	96.5	91.8
28 mph	154.1	171.2	158.6	185.3	300.2	392.2	167.3	160.0
Average Delay (sec)	138.7	152.0	135.9	164.8	258.9	335.7	148.5	141.1
Number of Runs	10	9	9	8	8	6 ⁴	8	9
Length (feet)	27,177	27,472	27,330	27,379	27,428	27,459	27,135	27,396

¹Bolded direction indicates the direction of traffic which is favored by signal timings.

²Neither direction is significantly favored by existing signal timings.

³Limits of the range of average speed calculated based on the 95% confidence interval.

⁴Due to equipment malfunction, only six (6) runs were conducted for this direction.

Notes: No “after” studies were performed for the off-peak time period.

Posted Speed Limit: “O” Street – Fair Street = 35 mph

Fair Street – Cornhusker Highway = 40 mph

Cornhusker Highway – I-80 = 45 mph

Ideal Travel Time = 444.2 seconds (7 minutes 24.2 seconds)